

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/S91,550
Source: IFWP
Date Processed by STIC: 9/15/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 09/15/2006

PATENT APPLICATION: US/10/591,550

TIME: 09:18:47

Input Set : A:\Sequence Listing - 13987-00021-US.txt

Output Set: N:\CRF4\09152006\J591550.raw

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3 <110> APPLICANT: Song, Hee-Sook
4      Roche, Christina
5      Morra, Marc
6      Dammann, Christian
7      Jensen, Timothy
8      Dobson, Alleson
10 <120> TITLE OF INVENTION: TRANSGENIC EXPRESSION CONSTRUCTS FOR VEGETATIVE PLANT TISSUE
11      SPECIFIC EXPRESSION OF NUCLEIC ACIDS
13 <130> FILE REFERENCE: 13987-00021-US
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/591,550
C--> 15 <141> CURRENT FILING DATE: 2006-09-01
15 <150> PRIOR APPLICATION NUMBER: PCT/EP2005/002052
16 <151> PRIOR FILING DATE: 2005-02-26
18 <150> PRIOR APPLICATION NUMBER: US 60/548911
19 <151> PRIOR FILING DATE: 2004-03-01
21 <150> PRIOR APPLICATION NUMBER: US 60/591452
22 <151> PRIOR FILING DATE: 2004-07-27
24 <160> NUMBER OF SEQ ID NOS: 19
26 <170> SOFTWARE: PatentIn version 3.3
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 863
30 <212> TYPE: DNA
31 <213> ORGANISM: Pisum sativum
33 <220> FEATURE:
34 <221> NAME/KEY: promoter
35 <222> LOCATION: (1)..(863)
36 <223> OTHER INFORMATION: promoter region of ptxA gene including 5'-untranslated region
38 <220> FEATURE:
39 <221> NAME/KEY: misc_feature
40 <222> LOCATION: (300)..(583)
41 <223> OTHER INFORMATION: potential core region of the promoter comprising clusters of
42      promoter elements
44 <220> FEATURE:
45 <221> NAME/KEY: TATA_signal
46 <222> LOCATION: (549)..(554)
47 <223> OTHER INFORMATION: TATA signal
49 <220> FEATURE:
50 <221> NAME/KEY: 5'UTR
51 <222> LOCATION: (584)..(863)
52 <223> OTHER INFORMATION: 5' untranslated region
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56 gcaatttttt gtgaagctga gggaggattg gattttacac ctattcaaaa gtcattcaaa      60
57 gtttgcctt ccattcaagg atgaatgtag atttttcaag catcaaacac aagaatcact      120

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58 agcataacat gctttgaaac ccacacactt aaattaatgt taggaatatac aaatccaata 180
59 taaaatcata gttgtcaatt acataactcaa tcaagtcacct ttcttttacc caataaacat 240
60 caacatattg cttcttccat taagcatata aacatcaaag tctaaaacta gcaaaatgtt 300
61 gtttttagga tgacacattt catacatagt ttaaaagata cttgattcga ttacaaaaag 360
62 aaattaccaa tagtttagca caaagtctaa agcataatta aagcatcaca tgtgcagatt 420
63 tatgaaaaaa agattaagat tgcccccttc atcacgggtc gaataatagc actacttgtc 480
64 actacatggt aaaaaaatgt cctctagtac atcaaacttt ttccattgat tccccctatc 540
65 catgaaaaaa ataaacaaat tcttaagaca caaaaaaatg gcccacatc cttttttctg 600
66 gcctagtttg tttgaattca ttctaactct tgaatatgta acgaggccca ctaaaaatca 660
67 atcaatgatt taacataaaa aatgaatagt ttaattccaa tttgctgcaa catggtccgt 720
68 gaatatgact cactgagaaag atatatcaaa atatcaaaat ttcatagttt ttttcaccat 780
69 ataaacctca tcactcattc tattttttta agtgcaaagc ttcatagtag tgagcacaca 840
70 cattacacta aaatcttcga aac 863

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72 <210> SEQ ID NO: 2

73 <211> LENGTH: 1380

74 <212> TYPE: DNA

75 <213> ORGANISM: Glycine max

77 <220> FEATURE:

78 <221> NAME/KEY: promoter

79 <222> LOCATION: (1)..(1380)

80 <223> OTHER INFORMATION: promoter region of SbHRGP3 gene including 5' untranslated region

82 <220> FEATURE:

83 <221> NAME/KEY: misc_feature

84 <222> LOCATION: (800)..(1179)

85 <223> OTHER INFORMATION: potential core region of the promoter comprising clusters of promoter elements

88 <220> FEATURE:

89 <221> NAME/KEY: TATA_signal

90 <222> LOCATION: (1147)..(1152)

91 <223> OTHER INFORMATION: TATA signal

93 <220> FEATURE:

94 <221> NAME/KEY: 5'UTR

95 <222> LOCATION: (1180)..(1380)

96 <223> OTHER INFORMATION: potential 5' UTR

98 <400> SEQUENCE: 2

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99 tagaaagctt ttcaacaatc atgcccattgt caagtgtaaa acagggtttac ctctcttaaa 60
100 taaccgtatt aaaatgctga atgatgtata tatgtgggtt caaattacat aatttgtaag 120
101 tatgttacac attgtataaa tatgttttag agaaaaatgt aaacttatat gtctaaagtt 180
102 ataaaagaaa catgtccaac acatttcagt taagatttaa atagtataaa ttaaaaatta 240
103 tcgatgatga caaaaaattg taaatataat tcatttttaa aaaagttaag aaattgaaaa 300
104 aggaaatata gagaaaaaaa tatgtcgatt atatatatgt gtgagctgag tgaatatata 360
105 tgtatatattt atttttgact gaatatatgt gtgtatagac aataatgcgc agaatgccga 420
106 tcgatgaatt gtttactgca tttccaaata tgtgtgcata agcgttccac atgtcaccca 480
107 tgttgtaatt agtttcttcc ctggatgaat tactaagaaa cagattgatt gatagtacta 540
108 tattaaatta tgtagcttta catgtcagga aaatgtagtt gcagtattat gtaatgtaat 600
109 taataggaag tcacagacaa tttgaagaca atttcttttag cttacctatc tcatgccaca 660
110 attatgtact tacgacagta aaatgtttta aagcaaaaaa aagaaagaag aagaagaagt 720
111 aataaatgga attatataga atgtactctt tgtcttcac tgccctataa ttctctgcagc 780
112 agccaaagca taatagcatg caatatgcac atattcgttt taggctttta gcctccacga 840

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113 tctgttaatg gaaagtgaaa agtaagagat atgaagttca ttatggcagc catgggtccca      900
114 ggggaagcact agaagatatg aaatgacata aaagggtcacc atgcataatg ctttaaagtgc      960
115 ttgctataga atcaaaaaat gaagagatgt gacaaattgt tacatctaata acgcaataat     1020
116 ttgacaaaga cgactatgcg tttatatatt tatttttaatt agttggcgct tcttattata     1080
117 aagaaaataa gggcagtgct aacattttcca ggcaactagt tagttatttt attttcttgt      1140
118 ttataattat ttccatatag ctagctgtct ctatctaata caaatccgct ttccacaacc      1200
119 aacttggtcg cattgggtcca aaaaactcaa tatcaatatt ttcgaaatag ttttagcatt      1260
120 gtttaggaag agaattgtaa gagataaaat ctaagtactc cacctaccaa gataaaatag      1320
121 ttggataaat gggtaaaaaa agttgtataa agggcaacac tacctctcct aatggcgagta      1380
123 <210> SEQ ID NO: 3
124 <211> LENGTH: 26
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Oligonucleotide primer ptxA5'
131 <400> SEQUENCE: 3
132 ggcgcgcccc caattttttg tgaagc                                         26
134 <210> SEQ ID NO: 4
135 <211> LENGTH: 25
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Oligonucleotide primer ptxA3'
142 <400> SEQUENCE: 4
143 tctagataag tttcgaagat tttag                                         25
145 <210> SEQ ID NO: 5
146 <211> LENGTH: 29
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Oligonucleotide primer SbHRGP3-5'
153 <400> SEQUENCE: 5
154 tctagataga agcttttcaa caatcatgc                                         29
156 <210> SEQ ID NO: 6
157 <211> LENGTH: 24
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial
161 <220> FEATURE:
162 <223> OTHER INFORMATION: Oligonucleotide primer SbHRGP3-3'
164 <400> SEQUENCE: 6
165 agatcttact gccattagga gagg                                         24
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168 <211> LENGTH: 1381
169 <212> TYPE: DNA
170 <213> ORGANISM: Glycine max
172 <220> FEATURE:
173 <221> NAME/KEY: promoter
174 <222> LOCATION: (1)..(1368)
175 <223> OTHER INFORMATION: promoter

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177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (801)..(1178)
180 <223> OTHER INFORMATION: potential core region of promoter
182 <220> FEATURE:
183 <221> NAME/KEY: TATA_signal
184 <222> LOCATION: (1146)..(1151)
185 <223> OTHER INFORMATION: TATA signal
187 <220> FEATURE:
188 <221> NAME/KEY: 5'UTR
189 <222> LOCATION: (1369)..(1381)
190 <223> OTHER INFORMATION: 5' untranslated region
194 <400> SEQUENCE: 7
195 aagctttttca acaatcatgc ccattgtcaag tgtaaaacag gtttacctct cttaaataaac      60
196 cgtattaaaa tgctgaatga tgtatatatg tgggttcaaa ttacataatt tgtaagtatg      120
197 ttacacattg tataaatatg ttttagagaa aaatgtaaac ttatatgtct aaagttataa      180
198 aagaaacatg tccaacacat ttcagtttaag atttaaatag tataattaaa aattatcgat      240
199 gatgacaaaa aattgtaaat ataattcatt ttaaaaaaag ttaagaaatt gaaaaaggaa      300
200 atatcgagaa aaaaatatgt cgattatata tatgtgtgag ctgagtgaat atatatgtat      360
201 attttatttt tgactgaata tatgtgtgta tagacaataa tgcgcagaat gccgatcgat      420
202 gaattgttta ctgcatttcc aaatatgtgt gcataagcgt tccacatgtc acccatgttg      480
203 taattagttt cttccctgga tgaattacta agaaacagat tgattgatag tactatatta      540
204 aattatgtag ctttacatgt caggaaaatg tagttgcagt attatgtaat gtaattaata      600
205 ggaagtcaca gacaatttga agacaatttc tttagcttac ctatctcatg ccacaattat      660
206 gtacttacga cagtaaaatg tttaaaagca aaagcaaaaa aaagaaagaa gaagaagaag      720
207 taataaatgg aattatatag aatgtactct ttgtcttcct ctgccctata attcctgcag      780
208 cagccaaagc ataatagcat gcaatatgca catattcggt ttaggctttt agctccacga      840
209 tctgttaatg gaaagtgaag agtaagagat atgaagttca ttatggcagc catgggtccca      900
210 gggaagcact agaagatatg aaatgactaa aaggtcacca tgcataatgc tttaaatgct      960
211 tgctatagaa tcaaaaaatg aagagatgtg acaaatgtgt acatctaata cgcaataatt     1020
212 tgacaaagac gactatgcgt ttatatattt attttaatta gttggcgtct cttattataa     1080
213 agaaaataag ggcagtgtca acatttccag gcaactagtt agttatttta ttttcttggt     1140
214 tataattatt tccatatagc tagctgtctc tatctaattc aaatccgcgt tccacaacca     1200
215 acttggtcca aaaaactcaa tatcaatatt ttcaaaatag ttttagcatt gtttaggaag     1260
216 agaattgtaa gagataaaat ctaagtactc cacctaccaa gataaaaatg ttggataaat     1320
217 gggtaaaaaa gttgtataaa gggcaacact acctctccta atggcagtac caaaacccaa     1380
218 g                                                                                   1381
220 <210> SEQ ID NO: 8
221 <211> LENGTH: 1388
222 <212> TYPE: DNA
223 <213> ORGANISM: Glycine max
225 <220> FEATURE:
226 <221> NAME/KEY: promoter
227 <222> LOCATION: (1)..(1175)
228 <223> OTHER INFORMATION: potential promoter region
230 <220> FEATURE:
231 <221> NAME/KEY: misc_feature
232 <222> LOCATION: (796)..(1175)
233 <223> OTHER INFORMATION: potential core region of promoter

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235 <220> FEATURE:
236 <221> NAME/KEY: TATA_signal
237 <222> LOCATION: (1143)..(1148)
238 <223> OTHER INFORMATION: TATA signal
240 <220> FEATURE:
241 <221> NAME/KEY: 5'UTR
242 <222> LOCATION: (1176)..(1388)
243 <223> OTHER INFORMATION: 5' untranslated region
246 <400> SEQUENCE: 8
247 aagctttttca acaatcatgc ccatgtcaag tgtaaaacag gtttacctct cttaaataac      60
248 cgtattaaaa tgctgaatga tgtatatatg tgggttcaaa ttacataatt tgtaagtatg      120
249 ttacacattg tataaatatg ttttagagaa aaatgtaaac ttatatgtct aaagttataa      180
250 aagaaacatg tccaacacat ttcagttaag attttaaatag tataaattaa aaattatcga      240
251 tgatgacaaa aaattgtaaa tataattcat tttaaaaaaa gttaagaaat tgaaaaagga      300
252 aatatcgaga aaaaaatatg tcgattatat atatgtgtga gctgagtga tatatatgta      360
253 tatttttattt ttgactgaat atatgtgtgt atagacaata atgcgagaa tgccgatcga      420
254 tgaattgttt actgcatttc caaatatgtg tgcataagcg ttccacatgt caccatggt      480
255 gtaattagtt tcttcctgg atgaattact aagaaacaga ttgattgata gtactatatt      540
256 aaattatgta gctttacatg tcaggaaaat gtagttgcag tattatgtaa tgtaattaat      600
257 aggaagtcac agacaatttg aagacaattt ctttagctta cctatctcat gccacaatta      660
258 tgtacttacg acagtaaaat gtttaaaagc aaaaaaaga aagaagaaga agaagtaata      720
259 aatggaatta tatagaatgt actctttgtc ttcactctgc ctataattcc tgcagcagcc      780
260 aaagcataat agcatgcaat atgcacatat tcgttttagg ctttttagcct ccacgatctg      840
261 ttaatggaaa gtgaaaagta agagatatga agttcattat ggcagccatg gtcccaggga      900
262 agcactagaa gatatgaaat gacataaaag gtcaccatgc ataatgcttt aaatgcttgc      960
263 tatagaatca aaaaatgaag agatgtgaca aattgttaca tctaatacgc aataatttga      1020
264 caaagacgac tatgcgttta tatattttatt ttaattagtt ggcgtctctt attataaaga      1080
265 aaataagggc agtgtcaaca tttccaggca actagttagt tatttttatt tcttgtttat      1140
266 aattattttcc atatagctag ctgtctctat ctaatccaaa tccgctttcc acaaccaact      1200
267 tggctgcatt ggtccaaaaa actcaatatc aatattttcg aaatagtttt agcattgttt      1260
268 aggaagagaa ttgtaagaga taaaatctaa gtactccacc taccaagata aaatagttgg      1320
269 ataaatgggt aaaaaaagtt gtataaaggg caacactacc tctcctaata gcagtaccaa      1380
270 aacccaag
272 <210> SEQ ID NO: 9
273 <211> LENGTH: 1373
274 <212> TYPE: DNA
275 <213> ORGANISM: Glycine max
277 <220> FEATURE:
278 <221> NAME/KEY: promoter
279 <222> LOCATION: (1)..(1172)
280 <223> OTHER INFORMATION: potential promoter region
282 <220> FEATURE:
283 <221> NAME/KEY: misc_feature
284 <222> LOCATION: (793)..(1172)
285 <223> OTHER INFORMATION: potential core region of promoter
287 <220> FEATURE:
288 <221> NAME/KEY: TATA_signal
289 <222> LOCATION: (1140)..(1145)
290 <223> OTHER INFORMATION: TATA signal

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/15/2006
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Input Set : A:\Sequence Listing - 13987-00021-US.txt
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,10,11,12,13,14,15,16,17,18,19

VERIFICATION SUMMARY

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L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date